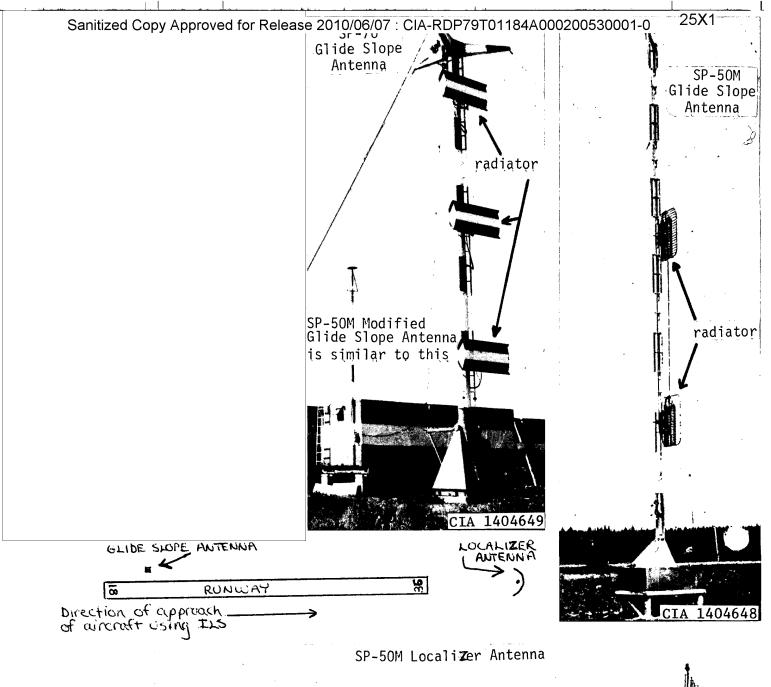
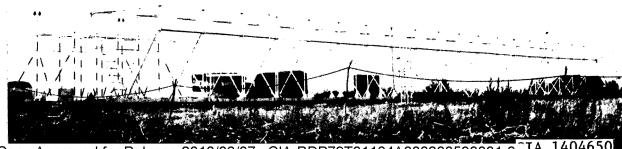
Sanitized Copy Approved for Release 2010/06/07: CIA-RDP79T01184A000200530001-0 25X1 CONTROL NO. DATE TOP SECRET RUFF 30 April 1925X1 DISTRIBUTION LIMITED TO **SUBJECT IEG PI NOTICE** Air Forces/Electronics AREA: DISTRIBUTION: No. 21 - 79All PI's TITLE/SIGNIFICANCE: Soviet fixed instrument landing systems (ILS): the SP-50M, SP-50M Modified, and SP-70. This notice provides descriptions and photographs of three fixed Soviet instru-COMMENT: ment landing systems (ILS)- the SP-50M, an ILS temporarily designated by NPIC as the SP-50M Modified, and the SP-70. The SP-50M localizer antenna consists of a horseshoe-shaped array with its open end towards the runway. A circular-shaped probable environmental housing for the probable antenna feed is normally observed within the tips of the horseshoe. The SP-50M glide slope antenna possesses two radiators. The SP-50M Modified localizer antenna is also horseshoe-shaped, but possesses less of an arc than that of the SP-50M. The SP-50M Modified localizer antenna posesses no circular-shaped environmental housing, but rather is observed with a "rack" containing five cylindrical objects positioned immediately in front of the open end of the array, and a second "rack" of three cylindrical objects even with the tips of the array. The SP-50M Modified glide slope antenna possesses three radiators. The SP-70 localizer antenna consists of a long bar-shaped array. A parallel, shorter bar-shaped array is positioned on the side of the long array opposite the end The SP-70 glide slope antenna possesses three radiators. 25X1 LOCATION(S) SOURCES: "Radio Aids for Aircraft Landing, Short-Range Numerous Soviet civil and Navigation, and Secondary Radar Systems", Astronautics some Soviet military-assoand Aeronautics, Feb 1975. + KEYHOLE photography ciated airfields DISCLAIMER — This is an informal communication intended for circulation within NPIC/IEG only. The conclusions are the opinion of the originator at the time of issue. Supporting or contrasting views are welcomed, and should be directed to the originator 25X1 (1)R FM (1-79) 1327(E-00 TOP SECRET RUFF 25X1 WARNING NOTICE DISTRIBUTION LIMITED TO 25X1 Intelligence Sources and Methods Involved

Sanitized Copy Approved for Release 2010/06/07: CIA-RDP79T01184A000200530001-0





SP-70 Localizer Antenna



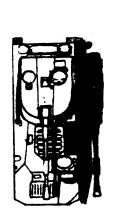
Sanitized Copy Approved for Release 2010/06/07: CIA-RDP79T01184A000200530001-0 IA 1404650

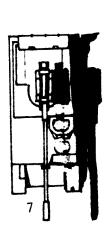
TOP SECRET RUFF

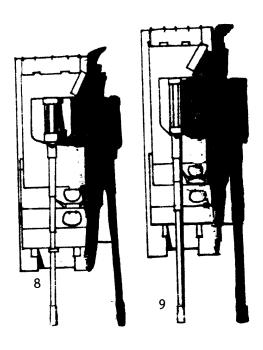
25X1

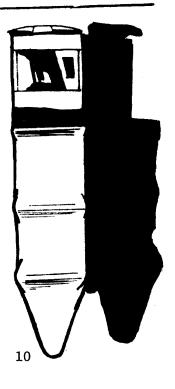
Watch for Likely Deployment to Unit

	Div or Regt AT Bns (MRD) AT Regts in Non-Div
Sverdlovsk Poss AT Gun TL6 (001)	Arty Units
Perm Poss Gun/How TL8 (002)	Arty Regts in Non-Div Arty Units (replace 130mm
TL9 (003)	and/or 152mm
Novosibirsk Poss Gun/How TL9 (004)	
TL10 (005)	
Sverdlovsk Poss Gun/How TL10 (006)	L
Donguz-SP Gun TL7.4 (007)	
Leningrad-SP Gun TL10.5 (008)	Hvy Arty Bdes (replace 203mm How)
TI 11 2 (009)	









122mm SP GUN, M-1974

LEGEND:

- 7. Donguz-SP Gun-TL7.4 (007)
- 8.* Leningrad-SP Gun/How-TL10.5 (008)
- Related Prototypes
- 9.* Leningrad-SP Gun/How-TL11.2 (009)_
- 10. Leningrad-SP Unid Veh (Poss Arty Related) (010)

Naming Structure:

- Place where first seen function Tube Length (M) (Sequential Number) (Except Leningrad SP)
- * One of the Perm Guns (002 or 003) and one of the Leningrad Guns (008 or 009) have been deployed to units.